

Civil Engineer-in-Training

Skills and Achievements

- Civil engineer with four years of experience in resource and site development
- Additional two years of advanced engineering training in problem and project based learning, “PBL – The Aalborg Model”: identification of problem and opportunity areas, evaluation and alternative solution proposals, simulations, and optimizations
- Passed NCEES Civil FE Exam: <https://account.ncees.org/rn/1751306-1004293-8ba53db>
- Knowledge of civil design calculations: grading, drainage, paving, geometric, and utilities
- Designed a roundabout that calms traffic, improves LOS from D to A, and meets HCM guidelines
- Improved thermal comfort in naturally-ventilated room: reduced Archimedes # 197 & 1600 KS^2 / m^6
- Reduced annual energy frame of classroom from 168MJ/m², exceeding (144MJ/m²), to 9MJ/m²
- Designed parking lot grading and stormwater pond using Civil 3D, Seneca College, Canada
- Reduced feasibility drill road construction cost by 70% : survey and geochemical sampling maps
- Prize for good leadership, Mfantsipim School

Education and Professional Development

B.A.Sc. [Honors Civil Engineering, GPA 3.10/4], University of Windsor, Windsor, Canada	2011-2015
Certificate in Mining Studies, University of British Columbia, Vancouver, Canada	2004-2007
MSc Indoor Environmental Engineering, Aalborg University, Aalborg, Denmark	1999-2001
Undergraduate Diploma Mining Engineering, KNUST, Tarkwa, Ghana	1992-1996
Professional Development: Advanced AutoCAD and Civil 3D, Seneca College, CA	Sept. 2015

Employment History

Forestry Technician , Blue Collar Silviculture, Quesnel, Canada	2015 -to-date
<ul style="list-style-type: none">• Assisted with reforestation efforts: interpretation of maps, preparing sites, and tree planting• Performed site reconnaissance survey to locate areas for temporary road access• Assessed and surveyed sites for reclamation and rehabilitation works	
Project Engineer , Beacon Survey Ltd, Accra, Ghana	2008-2011
<ul style="list-style-type: none">• Planned and assisted contractors in the execution of exploration reconnaissance studies and site developments to reduce line offsets and enhance drainage layout• Represented contractors on-site during construction: gathered information and estimated material quantities, conducted inspections and verified specifications for cost effective operations• Performed technical and feasibility studies; including, site investigations for resource development	
Geotechnical Assistant , Dundee Precious Metals, Toronto, Canada	2007-2008
<ul style="list-style-type: none">• Obtained material samples (soil geochemical and drill cores) in the field and scheduled for testing• Analyzed survey maps, drawings, blueprints, aerial photography, topographical and geology data• Establish reference points, grades, and elevations to guide construction• Provided drafting and technical support: plan layout, scheduling, and budget estimates	
Indoor Air Quality Technician , BGE Services and Supply, Fort McMurray, Canada	2002-2003
<ul style="list-style-type: none">• Processed prescribed permits and worked with clients to analyze needs and materials for IAQ• Inspected and changed air filter media for acceptable ventilation effective and indoor air quality	
Field Manager / Project Engineer , Golden Resource Group, Accra, Ghana	1996-1998
<ul style="list-style-type: none">• Conducted engineering analysis of survey and field data for development of soil and site mapping• Inspected construction of coreshack facility: specifications, safety, and quality• Analyzed and monitored costs and benefits for construction projects and evaluates alternatives to ensure cost effectiveness of construction projects• Coordinated project assignments with technical staffs including expatriates from USA and Canada	